

AOPC: 23- Information for UPRR Albina

Category	Type of Information	Site Information
AOPC Information		
Location	Location (RM)	RM 9.85–10.2
	River Side	E
Nearby Upland Properties	Upland Properties Adjacent to AOPC	Ash Grove Cement Co. <u>For UPRR Only</u>
Surface Area	AOPC Size (acres)	17.6
COCs		
COC Information	Primary COCs (Mapping)	PCBs, Toxicity
	Secondary COCs	Lindane (fish consumption)
	Exposure Pathways	Fish consumption
COC Distribution	Horizontal Distribution (summary)	Area of PCB and PAH contamination offshore of Ash Grove Cement. Generally level 1 or no benthic toxicity.
	Vertical Distribution (summary)	
COC Characteristics	Chemical Mobility Data	
COC Characteristics	Surface and Transition Water Chemistry Data	
	Fish Tissue Chemistry Data	
	Principle Threat and/or Hot Spots	
Potential Sources		
Potential Upland Sources	Upland Source Migration Pathways and COCs	
	Integration with Upland Source Control Measures	
In-Water Sources	In-water sediment and surface water sources	
Recontamination Potential	Evaluation of upland and in-water sources	
Current and Future Land Use		
Human Activities	River Use	1 dock; shoreline is beach with recreational/transient human use area between RM 9.85 (upper extent of AOPC) and 9.9
	Adjacent Land Use	
	Accessibility	
Habitat	Type - open water, wetland, shallows, vegetative shoreline	Shorebird habitat from upper extent of AOPC (RM 9.85) to RM 9.9; no amphibian habitat identified
Future Site use	Future Site Uses	

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Site Characteristics		
Navigation	Active shipping/berthing area	
	Maintenance Dredging	Multiple dredging events along navigation channel from upper (RM 9.85) to lower (RM 10.2) extent of AOPC; Ash Grove dredging for berth maintenance planned (2010) near dock RM 10, 7,850 cu yd
	Prop wash Potential	
Obstructions	Utility Crossing	
	Presence of in-water structures	1 large dock between RM 10.0 and 10.2
	Subsurface Features (e.g., hardpan or bedrock)	
Flood Rise	Location and configuration	
Erosion, Wave Energy, Stability,	Erosional or Depositional Potential	% Neutral Area = 30, % Erosional Area = 13, % Depositional Area = 57; Mean bathymetric change (2002 - 2004) -0.18 ft +/- 0.48 (1 std dev)
	Water Depth (ft) - min/max/avg	Avg Depth for AOPC 23 = 30' (+/- 13') (1 std dev)
	Bank and Beach Type	Predominantly unclassified fill with non-vegetated riprap from upper extent of AOPC (RM 9.85) to RM 9.0 and seawall from RM 10.1 to 10.15
	River Bottom Slope	AOPC 23 has 6.2 acres greater than 10 pct slope out of a total of 17.6 acres or 35%
Bottom Debris	Coverage/Type	
Sediment Characteristics		
Physical Properties	USGS Sediment Type ¹	Predominantly sandy mud except around channelward border of AOPC at RM 9.95 where muddy sand
	Total Organic Carbon	Mean (\pm SD): 1.8 (0.3), Min: 0.8, Max: 2.3, large area of elevated concentrations between RM 9.95 and lower extent of AOPC (RM 10.2)
Other		
Other Issues	Site specific	
General Response Actions		
No Action		
Institutional Controls		
MNR		
Containment		
Removal and Disposal		

¹ The sediment types use 20% and 50% as "cut-off" limits. For example, pure sand has less than 20% of mud or gravel; sandy mud has greater than 50% mud and more than 20% sand; muddy sand has greater than 50% sand and more than 20% mud.

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Treatment (in-situ and ex-situ)		

- 1) What are the upland COIs? What are the general levels of the most significant upland contamination relative to JSCS SLVs (10x, 100x, 1000x, etc)? **Metals, TPH-dx, TPH heavy oil, PAHs, PCBs (no known releases or sources just minor detections in two CBs). No significant excendences of more that 10x to indicate source area except for diesel LNAPL in groundwater. Most significant exceeedence were metal (PB at 10x – 100x SLVs) in catch basin sediment and erodable soils which was removed.**
- 2) What are the upland sources (e.g., tank release, facility operations, etc)? **Petroleum releases from AST and subsurface lube oil piping, UST and small scale chemical spills related to general railroad operations over the years. List on known spills in documented in draft RI report.**
- 3) What are the current or reasonably likely future contaminant migration pathways linking the uplands to the river (e.g., GW, stormwater, bank erosion, etc)? **Stormwater. GW is partially impacted by petroleum releases onsite (LNAPL present in limited area) but does not appear to be making it to river, i.e. plume seems stable but final interpretation of that has yet to be determined**
- 4) What's the relative recontamination potential of upland sources? i.e., if an effective source control measure is **not** implemented for a complete contaminant migration pathway (e.g., GW plume), will that pathway likely result the recontamination of a future in-river remedy (e.g., cap)? **Stormwater source control measure (line cleanout, system repair) has already been completed and effectiveness is being evaluated.**
- 5) What's the current & anticipated future land use of the facility & sites surrounding the facility? **Railroad/industrial**
- 6) Are there active over-water structures (e.g., docks, wharfs), & is it anticipated these structures will be used in the future? **Is the riverbank, beach & nearshore easily accessible from the upland (e.g., "no" because it's covered by wharves or steep rip-rap). No over- water activities from railroad. Only part of waterfront that is accessible on site is the southernmost section of yard. The southernmost beach the has a vegetative/erosion control mat placed on it to control erodable soil on the top of bank and slope. The area is accessible from river b/c of beach but then steep slope.**
- 7) Are there any under-river utility crossings in the area? Are there any subsurface sediment obstructions (e.g., buried ships, hard pan, shallow bedrock, etc)? **Unkown**
- 8) What is the general schedule for completing the phase(s) of source control? **SCE sampling complete, measures (cleanout, repairs) complete. DEQ needs to get comments to them. Will likely request additional performance monitoring sampling.**
- 9) **Any DEQ PM comments on the in-water information in the FS Matrices? No**